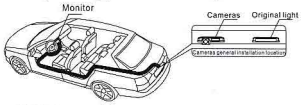
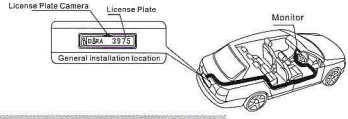
Cameras installation manual

1.General installation location

A.Special type:a camera replaces an original license light

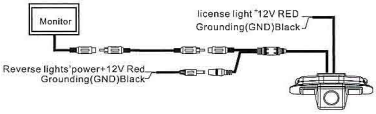


B.Universal type camera

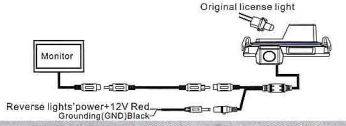


2.Wires connection guide

TYPE 1 Camera with license lights inside



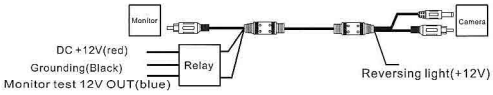
TYPE 2Camera without license lights inside or Universal type



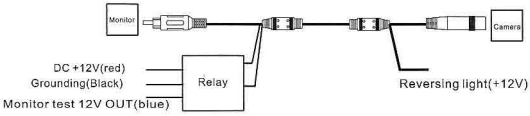
3.The Relay Function

A relay is needed that helps a camera to get power from car Accessory Power(ACC power 12C+),if some car's reverse lights'power is not enough for a camera to work.

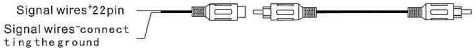
A.
If camera's out-put connectors are RCA and DC Plug Female, the wire connection is as follows:



B.
If camera's out-put connectors are 4in1 mini jack,the wire conn ection is as follows:



4.Original monitor on toyota camry and the signal line installs the digram



Vehicle Waterproof Cameras

Product Manual

Technical term	Technical parameters		
Images sensors	CCD	CMOS (OV50)	CMOS (OV60)
Power Supply (DCV)	DC12V±1V	DC12V±1V	DC12V±1V
Power	<1W	<1W	<1W
Effective pixels	728*582/728*512	580*540/580*492	668*576/668*512
electronic shutter	1/60(NTSC)1/50(PAL) 1/10,000second	1/60(NTSC) 1/10,000second	1/60(NTSC)1/50(PAL) 1/10,000second
Minimum illumination	0.1 Lux	1 Lux	0.5 Lux
S/N Ratio	≥48dB	≥48dB	≥48dB
Resolution(TV Lines)	520	420	480
TV System	PAL/NTSC	NTSC	PAL/NTSC
Lens Angle (Deg.)	170°	170°	170°
Video output	1.0vp-p,75ohm	1.0vp-p,75ohm	1.0vp-p,75ohm
IP rating	IP66	IP66	IP66
White Balance	Auto	Auto	Auto
AGC	Auto	Auto	Auto
BLC	Auto	Auto	Auto
Operating Temperature (Deg.C)	-30C°~+70C°(RH95%MAX.)	-30C°~+70C°(RH95%MAX.)	-30C°~+70C°(RH95%MAX.)

The above parameters can be modified without separate notification.

General Troubleshooting
Eliminating Barriers With The Following

Barriers Phenomena	Reason	Ways To Solve
Image Shaking	Fix-up Bracket Release	Adjust and Stablize
No image	Plugs without inserting well or system connect cables broken	Check the plugs inserting well or not, and system connect cables turn off or not
Image Blurring	cameras lens are dirty	Clean the camera lens
Image Slanting	Cameras are not installed in the right way	Adjust the bracket of cameras

Quality Assurance Card
Product Repair Terms

Free repair during the warranty of product starts the purchasing date, and the specific details of warranty as follows:
1.Warranty period will be one year after purchasing. But the accessories of expendable are not in the lines of warranty.
2.Please notice that the following cases won't be in warranty:
①There is no seals of release (sales point).
②Without warranty certification and invoice.
③Accessories failure.
④The barriers or destroy by improper using, repairing or changing.
⑤The barriers and destroy caused by changing, transit and drop of the using situation once after buying.
⑥The barriers and destroy by the fire, flood, earthquake, thunder and natural disaster or the unusual power and voltage.
⑦Using beyond the environment such as strong shocking and high temperature.
⑧Barriers and damage caused by during transit.
⑨Barriers and damage caused by operating the machine
3.Attention failure occurs:
Please go to the designated repair warranty card accepted for repair, in other places can not enjoy the warranty.

Quality Assurance Card

Commodity Name:_____
Commodity Item _____
Machine Number _____
Purchasing Date _____
Purchaser _____
Buyers Address _____
_____
"Telephone" _____

The name of releasing place and the address,telephon number,seal
2 It won't have the rights to get the goods repaired without the shop seals:

Please confirm the above item that whether recorded by the selling shop and read the contents carefully

Repair Record

Repair Date	Barriers Contents	Repair conten	Accessories Changed(Part No.)

Sales Shop Save

Commodity Name:		Commodity Item	
Machine Number		Purchasing Date	
Purchaser		telephone	
Buyers Address			